Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

27087	1 (Currently Amended). A method for authenticating a user an for input of
2	control information for an electronic device, said method comprising:
3	acquiring through a scanner at least two fingerprint images of a
4	finger;
5	computing image correlations between the acquired fingerprint
6	images:
7	extracting from each said fingerprint image at least one contact
8	parameter, calculated by the step of computing image correlations, the
9	contact parameter being determined between image attributes in each said
10	fingerprint image; and
11	using said fingerprint images and said at least one contact
12	parameter to authenticate said user and to control said electronic device.
1	2 (Original). A method as in claim 1, wherein said contact parameter is
_ 2	rotation.
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1	3 (Original). A method as in claim 1, wherein said contact parameter is
2	translation.
1	4 (Original). A method as in claim 3, further comprising calculating pitch
2	and roll rotations.
1	5 (Currently Amended). A method as in claim 1, further comprising
2	wherein the step of computing image correlations of is performed for a
3	single portion of said image.

1	6 (Currently Amended). A method as in claim 1, further comprising
2	wherein the step of computing image correlations is performed between a
3	multiplicity of small regions.
1	7 (Currently Amended). A method as in claim 1, further comprising the
2	step of determining the rate of change of some control parameter where a
3	rotation or translation of said finger relative to a reference position is used
4	to determine the rate of change of some control parameter of the computer
1	8 (Currently Amended). A method as in claim 7, further comprising the
2	steps of: ,
3	measuring a pitch and roll rotation of said finger; and
4	using measured pitch and roll rotation to control the position of a
5	cursor in the computer.
1	9 (Currently Amended). A method as in claim 7, wherein said the
2	reference position is the position at which contact with the scanner is first
3	registered, the reference point being reset further comprising the step of
4	resetting the reference point every time the finger reestablishes contact
5	with the scanner.
1	10 (Currently Amended). A method as in claim 1, further comprising the
2	step of comparing successive, and possibly consecutive, images taken fron
3	a single period of contact of said finger with said scanner.
1	11 (Original). A method as in claim 1 wherein at least one said fingerprint
2	images is a reference image captured previously.
1	12 (Original). A method as in claim 11 wherein the reference image is
2	labeled with known rotation information.



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13 (Currently Amended). A method as in claim 12, further comprising the

step of prompting the user to present the finger at known rotations in an

3	enrollment stage to provide said known rotation information
1	14 (Currently Amended). A system for authenticating a user and for input
2	of pointing information for a computer, said system comprising:
3	a fingerprint image acquisition scanner for acquiring a at least two
4	fingerprint image images of a finger, wherein said scanner is able to
5	capture successive images of a finger in motion on a surface of said
6	scanner;
7	computing means for computing image correlations between the
8	acquired fingerprint images;
9	an image processor for extracting from said fingerprint image at
10	least one contact parameter calculated by said computing means, other than
11	any optional authentication status data for said fingerprint image; and
12	means for using said successive fingerprint images and said at least
13	one contact parameter to control a pointing device and to authenticate said
14	user.
1	15 (Original). A system as in claim 14 wherein a multiplicity of variations
2	in each of said contact parameters are used to verify an acquisition of data
3	in real time from a live user.
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1	16 (Currently Amended). A system as in claim 15, said system further
2	comprising means for directing wherein a user is directed by the system to
3	follow through of any combination of a multiplicity of prompts including:
4	change a position of, add pressure to contact or rotate said finger from

which a fingerprint image is acquired and wherein said multiplicity of

prompts are venified by the system to ensure that the data is being

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7	generated at the time of direction.
1	17 (Currently Amended). A system as in claim 14, said system further
2	comprising means for prompting where the user is prompted to enact a
3	sequence of finger actions previously registered by the user as a
4	"password" for the device.
1	18 (Currently Amended). A system as in claim 14 wherein a motion of the
2	finger tip is interpreted as a gesture for recognition by a gesture engine, for
3	instance character recognition or a Graffiti like engine.
1	19 (Original). The system of claim 14, further comprising:
2	a feature extraction processor for extracting representative features
3	from said fingerprint image;
4	a memory for storing representative features of at least one
5	authorized user; and
6	a feature comparison processor for comparing said stored
7	representative features with said extracted representative features, and
8	generating authentication status data therefrom.
1	20 (Original). A system as in claim 19 wherein an identity of a user is used
2	to set customized features of the computer.
1	21 (Original). A system as in claim 19 where the identity of said user is
2	used to set customized parameters of the pointing device.
1	22 (Currently Amended). A system for imaging a fingerprint for input of
2	control information for an electronic device, said system comprising:
3	a fingerpaint image acquisition scanner for acquiring a at least two
4	fingerprint image images of a finger, wherein said scanner is able to

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1 2 capture successive images of a finger in motion on a surface of said

6	scanner;
7	computing means for computing image correlations between the
8	acquired fingerprint images; and
9	an image processor for extracting from said finger print image at
10	least one contact parameter, representing the angle of the finger in relation
11	to the scanner, where said angle is calculated by said computing means as
12	correlations between image attributes an of two or more images acquired
13	from scanners fingerprint image acquisition scanner,
14	wherein said successive fingerprint images and said at least one
15	contact parameter are used for control of said electronic device and for
16	authentication of a user.
1	23 (Currently Amended). A system for authenticating a user and for input
2	of pointing information for a computer, said system comprising:
3	a multiplicity of fingerprint image acquisition scanners providing a
4	large input surface for acquiring successive fingerprint images of a finger;
5	computing means for computing image correlations between the
6	successively acquired fingerprint images; and
7	an image processor for extracting from each said fingerprint image
8	at least one contact parameter calculated by said computing means, other
9	than any optional authentication status data for said fingerprint image; and
10	means for using said fingerprint images and said at least one
11	contact parameter to authenticate said user and as input of pointing
12	information for a computer.

24 (Original). A system as in claim 23, where the scanner consists of a

one-dimensional array of small fingerprint scanners.

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	1	25 (Original). A system as in claim 24, where the scanner consists of a
	2	two-dimensional array of small fingerprint scanners.
	1	26 (Original). A system as in claim 17, where the "password" is a sequence
	2	of touching individual small fingerprint scanners in a specific order with
ò	3	the same finger.
	1	27 (Original). A system as in claim 26, where the password is a sequence
	2	or touching individual small fingerprint scanners in a specific order, with
	3	more than one finger being used in the sequence either serially or in
	4	parallel.